IN THE CLAIMS

Please amend claims 24, 29, 47, 50, and 51 without any prejudice or disclaimer to the subject matter expressed therein as indicated in the complete listing of all claims in the application set forth below.

1. (Withdrawn) A system for routing packets containing voice data over a packetswitched network comprising:

a first interface having at least one telephone network port and at least one computer network port, the first interface configured to send and receive

voice data on the at least one telephone network port and send and receive

the packetized data on the at least one computer network port;
a second interface having at least one telephone network port and at
least one computer network port, the interface configured to send and
receive voice data on the at least one telephone network port and send
and

receive the packetized voice data on the at least one computer network port;

and

a monitoring system configured to monitor the sending and receiving of data between the first interface and the second interface.

2. (Withdrawn) The system of Claim 1, wherein the packet-switched network comprises the Internet.

- 3. (Withdrawn) The system of Claim 1, wherein the at least one telephone network port is configured to communicate with the public switched telephone network.
- 4. (Withdrawn) The system of Claim 1, wherein the first interface and the second interface include hardware or software configured to perform data compression and decompression.
- 5. (Withdrawn) The system of Claim 1, wherein the first interface and the second interface are configured to convert digitized voice data to packetized data.
- 6. (Withdrawn) The system of Claim 1, wherein the monitoring system is in communication with the first interface and the second interface to monitor the sending and receiving of data.
- 7. (Withdrawn) The system of Claim 1, wherein monitoring comprises analyzing quality of communication between the first interface and the second interface.
- 8. (Withdrawn) The system of Claim 1, wherein the monitoring system, the first interface and the second interface are configured to re-route the data based on monitoring.
- 9. (Withdrawn) A system configured to monitor parameters of a communication

session occurring over a packet-switched network comprising:

a collection system configured to obtain data regarding data transfer over said packet-switched network;

a first module, a second module and a third module, each configured to transmit packets to the other respective modules over said packet switched network and obtain and forward data regarding said transmission to said collection system; and

an analysis system in communication with said collection system, said analysis system having a processor and software configured to perform calculations on said data to monitor said parameters.

- 10. (Withdrawn) The system of Claim 9, wherein said collection system comprises software code.
- 11. (Withdrawn) The system of Claim 9, wherein said modules comprise interfaces.
- 12. (Withdrawn) The system of Claim 9, wherein said packets comprise test packets.
- 13. (Withdrawn) The system of Claim 9, further including a transmission system configured to utilize results of said monitoring to control communication between said first module, said second module and said third module.

14. (Withdrawn) A method for achieving voice communication via a packetswitched network comprising:

receiving voice data at a first location;

manipulating the voice data for transmission over a computer network; transmitting the manipulated voice data over a computer network via a first route;

receiving the manipulated voice data from the computer network at a second location;

converting the manipulated voice data to voice data; and monitoring the transmission characteristics of the first route.

- 15. (Withdrawn) The method of Claim 14, further including, re-routing the manipulated voice data if the monitoring reveals undesirable transmission characteristics.
- 16. (Withdrawn) The method of Claim 14, wherein undesirable transmission characteristics comprises delay.
- 17. (Withdrawn) The method of Claim 14, wherein voice data comprises analog data.
- 18. (Withdrawn) The method of Claim 14, further including monitoring alternate

routes.

- 19. (Withdrawn) The method of Claim 14, wherein the computer network comprises the Internet.
- 20. (Withdrawn) The method of Claim 14, wherein voice data comprises any type data transmitted in the public switched telephone network.
- 21. (Withdrawn) The method of Claim 14, wherein manipulating the voice data comprises converting digital voice data into data packets.
- 22. (Withdrawn) The method of Claim 14, wherein converting comprises deassembling the data packets.
- 23. (Withdrawn) The method of Claim 14, wherein monitoring comprises receiving data from either of the first location or the second location via the computer network regarding the first route.
- 1 24. (Currently amended) A method for maintaining desirable transmission
- 2 characteristics when sending data packets during a communication session
- 3 occurring between a first location and a second location on a computer network
- 4 comprising:
- 5 transmitting test packets from said first location to said second location;

- evaluating said test packets to determine the effect on said data packets

 of transmitting packets from said first location to said second location; and

 if said evaluating determines the effect on said data packets to be

 undesirable, sending said data packets to a third location prior to sending

 said data packets to said second location.
 - 25. (Original) The method of Claim 24, wherein said first location, said second location and said third location comprise interfaces.
 - 26. (Original) The method of Claim 24, wherein one said effect on said data packets comprises latency.
 - 27. (Currently amended) The method of Claim 24, wherein sending said data packets to a third location comprises causing said data packets to take a different route on said computer network.
 - 28. (Original) The method of Claim 24, wherein an undesirable effect on said data packets comprises degrading the quality of communication between said first location and said second location that inhibits voice communication.
- 1 29. (Currently amended) A method for maintaining desirable transmission
- 2 characteristics when sending data packets during a communication session

- 3 occurring between a first location and a second location on a computer network
- 4 comprising:
- 5 transmitting first data packets from said first location to said second
- 6 location;
- 7 evaluating said first data packets to determine the effect on said first data
- 8 packets of transmitting packets from said first location to said second
- 9 location; and
- if said evaluating determines the effect on said first data packets to be
- undesirable, sending said second data packets to a third location prior to
- sending said second data packets to said second location.
 - 30. (Original) The method of Claim 29, wherein said first location, said second location and said third location comprise interfaces.
 - 31. (Original) The method of Claim 29, wherein one said effect on said data packets comprises latency.
 - 32. (Withdrawn) A computer program product comprising a computer useable medium having computer program logic recorded thereon for providing an monitoring and routing system, comprising:
 - computer program code logic configured to receive input regarding the effect of one or more paths on packet transmission; computer program code logic configured to analyze -the effect of the one

or more paths on packet transmission;
computer program code logic configured to determine acceptable paths
based on the analysis.

- 33. (Withdrawn) The computer program product of claim 32, further including computer program code logic configured to transmit data regarding the acceptable paths to an routing device.
- 34. (Withdrawn) The computer program product of claim 32, further including computer program code logic configured to provide acceptable paths upon request.
- 35. (Withdrawn) The computer program product of claim 32, wherein the effect comprises delay and bit error rate.
- 36. (Withdrawn) The computer program product of claim 32, wherein the paths comprise any route between a first interface and a second interface.
- 37-41 Canceled
- 42. (Withdrawn) A method of determining least-cost-routing over a computer network of a telephone call, the method comprising:
 - determining the destination of an incoming call, the incoming call comprising call data;

determining two or more interfaces to which call data may be routed; for at least two interfaces, calculating the fee associated with terminating the call from two or more of said at least two interfaces over non-computer network communication facilities; and routing said call data to said interface calculated to have the lowest cost of termination over non-computer network communication facilities.

- 43. (Withdrawn) The method of Claim 42, wherein said non-computer network communication facilities comprises the public switched telephone network.
- 44. (Withdrawn) The method of Claim 42, wherein routing said call comprises packetizing the call data into call packets and transmitting the call packets to said interface calculated to have the lowest cost of termination over a non-computer network communication facilities.
- 45. (Withdrawn) The method of Claim 42, wherein determining the destination comprises evaluating the telephone number of the call destination.
- 46. (Withdrawn) The method of Claim 42, wherein calculating the fee comprises performing a look-up function to determine the fee associated with completing the call from the interface to the call destination.

- 1 47. (Currently amended) In a digital communications network, a monitoring and
- 2 routing system for maintaining desirable transmission characteristics when
- 3 sending data packets during a communication session occurring between a first
- 4 location and a second location on a computer network comprising:
- 5 means for controlling route selection between a first location and a second
- 6 location;
- 7 means for transmitting path characteristic packets from said first location
- 8 to said second location;
- 9 means for evaluating said test path characteristic packets to determine the
- 10 effect on said data packets of transmitting packets from said first location
- to said second location; and
- means responsive to an evaluation that the effect on said data packets is
- undesirable to select a route so that said data packets are sent to a third
- location prior to sending said data packets to said second location.
 - 48. (Previously presented) The monitoring and routing system of Claim 47, wherein said first location, said second location and said third location comprise interfaces.
 - 49. (Previously presented) The monitoring and routing system of Claim 47, wherein said path characteristic packets comprise test packets.

- 50. (Currently amended) The monitoring and routing system of Claim 47, wherein said wherein said path characteristic packets comprise data packets.
- 51. (Currently amended) The monitoring and routing system of Claim 47, wherein said wherein said path characteristic packets comprise pings.